

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2063/012100 /	FOR FURTHER ACTION <small>see Notification of Transmittal of International Search Report (Form PCT/ISA 220, as well as, where applicable, item 5 below)</small>	
International application No. PCT/EP 02/06687	International filing date (day/month/year) 18/06/2002	(Earliest) Priority Date (day/month/year) 21/12/2001
Applicant BASF CORPORATION		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. ---

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/06687

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08G65/26 C08G18/48 C08K5/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08G C08K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MASON M. ET AL : "Alkylaluminophosphonate-catalysed ring-opening homopolymerisation of epichlorin and propylene oxide." J. ORGANOMETALLIC CHEMISTRY, vol. 599, 14 December 1999 (1999-12-14), pages 200-207, XP002217501 cited in the application tables 2,3	1-30
A	DE 19 37 728 A (SUMITOMO CHEMICAL CO) 19 February 1970 (1970-02-19) claim 1; example 1 --- -/--	1-30

☒ Further documents are listed in the continuation of box C☒ Patent family members are listed in annex

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

B document member of the same patent family

Date of the actual completion of the international search

21 October 2002

Date of mailing of the international search report

08/11/2002

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/06687

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No
A	CHEMICAL ABSTRACTS, vol. 76, no. 10. 6 March 1972 (1972-03-06) Columbus, Ohio, US; abstract no. 46715j, UNENO S. ET AL: "Polymerisation catalysts for alkylene oxides" XP002217502 abstract & JP 07 130705 A (SUMITOMO CHEMICAL CO LTD.) 6 September 1971 (1971-09-06) ---	1-30
A	DE 100 30 413 A (KAO CORP) 1 March 2001 (2001-03-01) table 1 ---	1-30
X	US 5 919 988 A (PAZOS JOSEF ET AL) 6 July 1999 (1999-07-06) cited in the application claim 1; table 1 -----	12-30

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 02/06687

Patent document cited in search report		Publication date	Patent family members	Publication date
DE 1937728	A	19-02-1970	DE 1937728 A1	19-02-1970
			FR 2013715 A5	03-04-1970
			GB 1262899 A	09-02-1972
			US 3697496 A	10-10-1972
JP 7130705	A	19-05-1995	NONE	
DE 10030413	A	01-03-2001	DE 10030413 A1	01-03-2001
			JP 2001062308 A	13-03-2001
			US 6383970 B1	07-05-2002
US 5919988	A	06-07-1999	US 5777177 A	07-07-1998
			AU 720298 B2	25-05-2000
			AU 1598397 A	28-08-1997
			BR 9706971 A	06-04-1999
			CA 2245563 A1	14-08-1997
			CN 1210549 A	10-03-1999
			CZ 9802481 A3	17-02-1999
			DE 69705605 D1	16-08-2001
			DE 69705605 T2	08-11-2001
			WO 9729146 A1	14-08-1997
			EP 0879259 A1	25-11-1998
			ES 2158490 T3	01-09-2001
			JP 2000504753 T	18-04-2000
			PL 328018 A1	04-01-1999
			ZA 9700987 A	18-08-1997

XP-002217502

6001 Chemical Abstracts, Columbus, Ohio, US
Vol.: 76 () 06-03-1972 No.: 10

Page:

46715j Polymerization catalysts for alkylene oxides. Ueno, Shoji; Ooshima, Takao; Seki, Hideo (Sumitomo Chemical Co., Ltd.) Japan. 71 30,705 (Cl. C 08g, B 01). 06 Sep 1971, Appl. 24 Jul 1968; 3 pp. Reaction products of ALKOXYALUMINUM, $Al(OR)_3$ (R = Bu, amyl, or iso-Pr), and ALKYL PHOSPHATES were used as the title catalysts. Thus, *triisopropoxyaluminum* [555-31-7] and *Bu phosphate* [1623-15-0] were mixed at 30° in C_6H_6 , and the resulting soln. stirred with 5.8 g propylene oxide 7 hr at 80° to give 3 g wax-like POLY(PROPYLENE OXIDE), $[\eta]$ 0.4(C_6H_6 , 25%). Other phosphates used were *di-Bu phosphate* [107-66-4], *diethoxyphosphorus oxychloride* [814-49-3], *butoxyphosphorus oxydichloride* [1498-52-8], and *tri-Bu phosphate* [126-73-8].
H. Kuroe